

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P446997 CJE</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/NZ01/00188</b>	International filing date (day/month/year) <b>11 September 2001</b>	(Earliest) Priority Date (day/month/year) <b>11 September 2000</b>
Applicant <b>NEW ZEALAND DAIRY BOARD et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

- ☒ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title, ☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract, ☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure
- ☐ because this figure better characterizes the invention
- ☒ None of the figures

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ01/00188

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: A23J 3/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

SEE BELOW

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SEE BELOW

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
STN (WPIDS;FSTA;CA):whey protein hydrolysate; SEQ ID NOS 1-8

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	WO 9965326, A1 (New Zealand Dairy Board) 23.12.99. See p3, Table 3; claims	1-34
X, Y	EP 269593, B1 (Albuglobe Aktiebolag) 04.03.92. See pp 1-3; Examp-les; claims	1-14;
X	WO 9221248, A1 (Danmark Protein A/S) (10.12.92). see p1; claims	1-14

☒ Further documents are listed in the continuation of Box C ☒ See patent family annex

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
  - "E" earlier application or patent but published on or after the international filing date
  - "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  - "O" document referring to an oral disclosure, use, exhibition or other means
  - "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

3 December 2001

Name and mailing address of the ISA/AU

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## INTERNATIONAL SEARCH REPORT

International application N.

PCT/NZ01/00188

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9324020, A1 (Novo Nordisk A/S) 09.12.93. See p 2; claims	1-14
X	US 5952193, A (Shimamura et al) 14.09.99; page 14; Examples; claims	1-14
X	WO 9304593, A1 (Teagasc, The Agriculture and food Development Authority) 18.03.93. See p 22; Examples; claims	1-14
Y	WO 9113554, A1 (Novo Nordisk A/S) 19.09.91.	1-14
X	JP 10033115 A (Nouchikusangiyon Shinko Jigyodan; Zenkoku Nokyo Nyugyo Plant Kyokai); abstract	1-14
X	Int Dairy J 6, pp 285-94 (1996) Castro et al "Proteolysis of whey proteins by a <i>Bacillus subtilis</i> enzyme preparation"	1-14

# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International application No.  
PCT/NZ01/00188

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO 9965326	AU 45359/99	EP 1087668	NO 20006305		
EP 269593	AU 81278/87	CA 1334635	DK 6168/87		
	FI 875192	JP 63160555	NO 874899		
	NZ 222592	SE 8605045	US 4847096		
WO 9221248	AU 18827/92	CA 2109584	EP 588841		
	IE 921762	IL 102059	NO 934310		
	NZ 242963	US 5691165			
WO 9324020	AU 43099/93	EP 642307	NZ 253019		
US 5952193	AU 36738/95	AU 63603/98	EP 799577		
	JP 8112063	NZ 294046	WO 9611584		
	JP 8112064	JP 8140693			
WO 9304593	AU 24682/92	EP 604467	IE 913057		
	IE 922622	NZ 244157			
WO 9113554	EP 518999	US 5866357	EP 647276		
	US 5523237	WO 9213964	AU 26799/97		
	BG 102948	BR 9708859	CZ 9803408		
	EE 9800353	EP 900207	HR 970211		
	NO 984928	PL 329441	SK 1453/98		
	WO 9740024				
END OF ANNEX					